ZTP Thermal & Power

# Energy-Saving Solutions for Estonian Telecommunication Sites

## Overview

In a significant move towards sustainability, Elisa Estonia is set to equip approximately 100 mobile network base stations with new lithium batteries and introduce an AI-based energy platform. This solution allows for the disconnection of base stations from the electrical grid during peak energy. Recent energy price hikes have hit the telecommunications sector hard, compounding the increased energy use involved with building out networks, traffic growth, and the ongoing transition away from legacy technologies. The new Site Energy Orchestration solution from Ericsson acts as an intelligent bridge between the radio access network (RAN) and power grids, optimizing operations to boost energy cost savings, reduce carbon footprint and open new revenue streams. The pathway targets a 45% emission reduction by 2030 and net zero emissions by 2050 for the. As the deployment of 5G technology accelerates globally, telecom operators are increasingly focused on improving energy efficiency in telecom sites.

# Energy-Saving Solutions for Estonian Telecommunication Sites

## The growing imperative of energy optimization for telco networks

In this article, we assess the causes of energy cost increases and how operators are coping with them, and we offer a potential path forward through better site design, a shift toward

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## Energy efficiency trends and policies

Under the updated EU Energy Efficiency Directive (2023), Estonia's energy-saving obligations are tightened, with the maximum allowed final consumption for 2030 reduced to 30 TWh (2.58 Mtoe)

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## New Ericsson solution for smart energy use in network sites

The new Site Energy Orchestration solution from Ericsson acts as an intelligent bridge between the radio access network (RAN) and power grids, optimizing operations to boost energy

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## 7 Top Energy Efficiency Companies in Estonia · May 2026 , F6S

Detailed info and reviews on 7 top Energy Efficiency companies and startups in Estonia in 2026. Get the latest updates on their products, jobs, funding, investors, founders and more.

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## Energy Resilience in Telecommunication Networks: A

As telecommunication networks become increasingly critical for societal functioning,

ensuring their resilience in the face of energy disruptions is

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## Sustainable Energy in Telecommunications and IT

Sustainable energy is the solution for long-term developments. It is easy to access a clean, affordable and reliable energy. This paper provides a

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## Improving the Indoor Climate and Energy Saving in

In this study we analyze how well the energy saving targets are achieved in renovated apartment buildings in Estonia.

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# (PDF) TELECOMMUNICATIONS ENERGY

The paper focuses on optimizing network design and operation, exploring energy-saving techniques and innovations, and revealing advanced

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## Enhancing Energy Efficiency in Communication Sites

Benefits of Energy Efficiency in Telecom Sites Reduced Operating Costs: The most immediate benefit to be obtained from energy efficiency

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## An Evaluation of RAN Sustainability Strategies in Production Networks

Abstract--Reducing energy consumption is a primary goal for the mobile telecommunicationindustry,withstrongenviron-mentalandeconomicimplications.The main target for savings is the Radio

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## Sustainable Telecommunications: Strategies for Reducing

By focusing on energy-eficient network design, integrating renewable energy sources and embracing circular economy principles, telecommunications companies can significantly reduce their

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## Elisa Estonia to Implement AI and Lithium Batteries to

Elisa Estonia enhances network efficiency with an AI-based energy platform and lithium batteries, ensuring sustainability and improved performance.

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## Telecommunication Power System: Energy Saving,

Systems represents one of the critical factors of the telecommunication's technologies, both to allow a sizeable saving of economic

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## The Estonian energy saving start-up making building

R8tech, an Estonian start-up making building climate management efficient and environmentally-friendly, closes a 900,000 euro investment round.

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## The key to lowering telecom costs: Energy , McKinsey

Telecom costs from energy are rising, but new efficiency measures and technology can help reduce them by 15 to 20 percent in just one year.

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## A Review of Energy Efficiency in Telecommunication Networks

Abstract -- This paper presents the concept of green telecommunication networks providing information about the power consumption within fixed line and wireless communication networks. It outlines the

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## White Paper 6G Energy Efficiency and Sustainability

6 Energy Saving Techniques and Performance Evaluation Metrics in 3GPP This chapter introducesEnergySavingTechniqueselaboratedin3GPP-Standardization,fromtheUser Equipment (UE) and

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## 43 of Telia's mobile sites in Estonia are now supported

Alongside Telia's mobile masts in Estonia, 43 solar installations have been constructed over the past year, enabling tens of thousands of Telia's customers in the country to use mobile

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## Energy Cost and Carbon Footprint Reduction for Telecom Companies

In addition to energy efficiency improvements, telecom companies can also lower their energy costs and carbon footprint by adopting renewables and decentralized solutions, whereby renewable electricity

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## Enhancing Energy Efficiency in Telecom Sites: Key

Energy efficiency in telecom sites is critical for reducing operational costs, enhancing reliability, and contributing to global sustainability efforts. By

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## NGMN Identifies Key Energy Saving Solutions for

In its latest publication "Green Future Networks: Network Energy Efficiency", the NGMN Alliance analyses existing and future energy saving

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## Energy Resilience in Telecommunication Networks: A

As telecommunication networks become increasingly critical for societal functioning, ensuring their resilience in the face of energy disruptions is

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## Smart and sustainable energy solutions

The focus area of smart and sustainable energy solutions covers science-based solutions for energy production, storage, transmission, system management, and consumption.

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## Energy Efficiency in Telecom Sites: Innovations in 5G

Explore how telecom operators are enhancing energy efficiency with 5G technology, AI-driven maintenance, modular design, and renewable energy

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## Telecom Energy Solution

Our solutions simplify site deployment, increase networks' energy efficiency and improve O& M efficiency. What's more, our solutions will help customers unleash

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